

**03050111-020**  
**(Halfway Swamp Creek)**

### General Description

Watershed 03050111-020 is located in Calhoun County and consists primarily of *Halfway Swamp Creek* and its tributaries. The watershed occupies 45,985 acres of the Upper Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Wagram-Faceville-Marlboro-Noboco series. The erodibility of the soil (K) averages 0.15 and the slope of the terrain averages 2%, with a range of 0-6%. Land use/land cover in the watershed includes: 48.4% forested land, 31.2% agricultural land, 9.6% forested wetland, 5.5% scrub/shrub land, 3.4% urban land, 1.2% barren land, and 0.7% water.

Halfway Swamp Creek originates near the Town of St. Matthews and drains into the upper reaches of Lake Marion. Before entering Lake Marion, Halfway Swamp Creek receives drainage from Lake Inspiration, located in downtown St. Matthews, Furlick Branch, Lyons Creek (Antley Springs Branch, Bell Branch), and Hutto Pond. There are a total of 57.4 stream miles and 400.0 acres of lake waters in this watershed, all classified FW.

### Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
C-058	S/W	FW	LAKE INSPIRATION - ST MATTHEWS (FRONT OF HEALTH DEPT.
C-063	S/W	FW	HALFWAY SWAMP CREEK AT S-09-43, 3 MI E OF ST MATTHEWS
ST-533	BIO	FW	LYONS CREEK AT SC 6
ST-534	BIO	FW	HALFWAY SWAMP CREEK AT SR157
C-015/SC-007	INT/SC	FW	HALFWAY SWAMP CREEK AT SC 33
CW-241	W	FW	HALFWAY SWAMP CREEK AT S-09-72
CW-242	W/I	FW	HALFWAY SWAMP CREEK TRIBUTARY AT S-09-158
SC-038	SC	FW	UPPER LAKE MARION AT MOUTH OF HALFWAY SWAMP CREEK

**Lake Inspiration (C-058)** - Aquatic life uses are not supported due to excursions of dissolved oxygen, pH, turbidity, total phosphorus, and total nitrogen. In addition, there are significant increasing trends in turbidity and total phosphorus concentration. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions.

**Halfway Swamp Creek** – There are four SCDHEC monitoring sites along Halfway Swamp Creek. At the furthest upstream site (**C-063**), aquatic life uses are fully supported and a significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are not supported at this site due to fecal coliform bacteria excursions, which are compounded by a significant increasing trend in fecal coliform bacteria concentration. Aquatic life uses are partially supported at **ST-534** based on macroinvertebrate community data.

Further downstream (**C-015/SC-007**), aquatic life uses are fully supported, but recreational uses

are not supported due to fecal coliform bacteria excursions. At the furthest downstream site (**CW-241**), aquatic life uses are fully supported. There is a significant increasing trend in pH. Recreational uses are not supported due to fecal coliform bacteria excursions.

**Lyons Creek (ST-534)** - Aquatic life uses are partially supported based on macroinvertebrate community data.

**Halfway Swamp Creek Tributary (CW-242)** - Aquatic life and recreational uses are fully supported.

**Halfway Swamp Creek arm of Lake Marion (SC-038)** - Aquatic life uses are not supported due to total phosphorus excursions. Recreational uses are fully supported. (This station is mapped in 03050111-010).

*A fish consumption advisory has been issued by the Department for mercury and includes portions of Lake Marion within this watershed (see advisory p.39).*

## Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-025	GB	BLACK MINGO	ST. MATTHEWS

## NPDES Program

### Active NPDES Facilities

<i>RECEIVING STREAM</i>	<i>NPDES#</i>
<i>FACILITY NAME</i>	<i>TYPE</i>
<i>PERMITTED FLOW @ PIPE (MGD)</i>	<i>COMMENT</i>
ANTLEY SPRINGS BRANCH	SC0028801
TOWN OF ST MATTHEWS/SOUTH PLANT	MINOR DOMESTIC
PIPE #: 001 FLOW: 0.55	

## Growth Potential

There is a low potential for growth in this watershed, with the exception of the northwestern corner around the Town of St. Matthews. The widening of US 601 from the Orangeburg County line to downtown St. Matthews may provide future growth to the area.